



## Gulf of Mexico Harmful Algal Bloom Bulletin

24 November 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: November 16, 2006

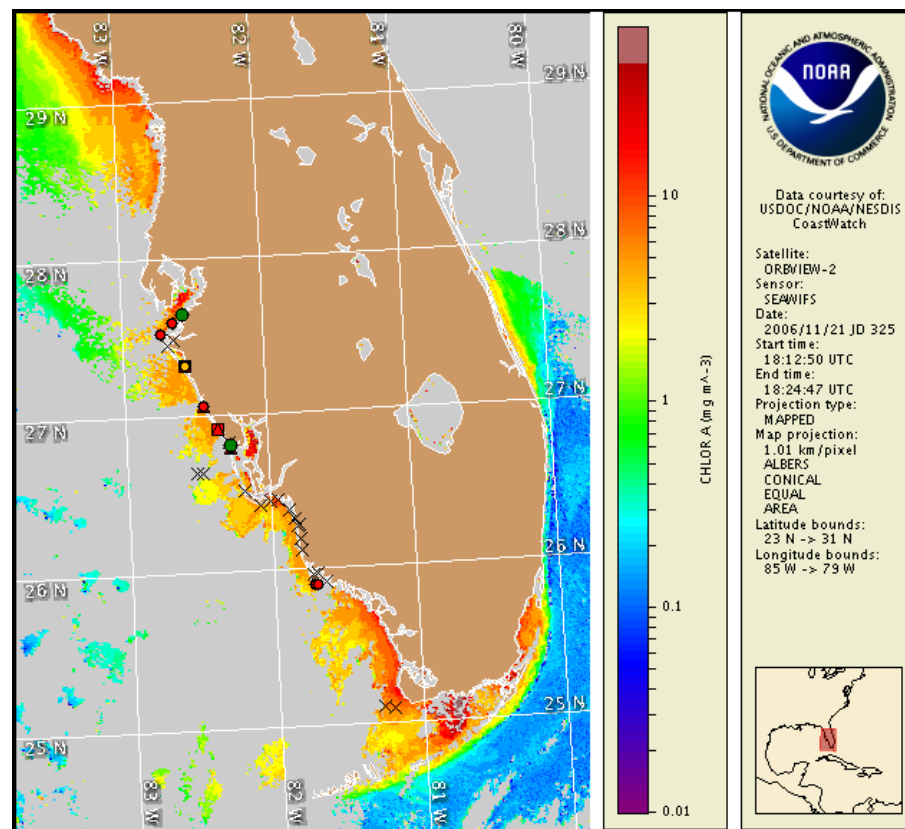
### Conditions Report

A harmful algal bloom has been identified from southern Pinellas to central Collier Counties. From southern Pinellas to Sarasota Counties, very low impacts are possible today through Monday. In Charlotte County, low impacts are possible today through Monday. From Lee to central Collier Counties, very low impacts are possible today through Monday.

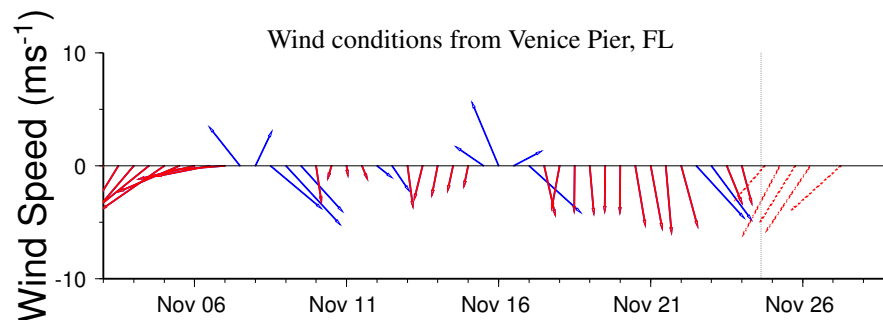
### Analysis

The harmful algal bloom persists from southern Pinellas to central Collier Counties. Recent satellite imagery has been partially obscured by clouds. Imagery from 11/21 shows chlorophyll levels mostly in the 3-4  $\mu\text{g/L}$  range along the coast between Tampa Bay and Charlotte Harbor. This imagery also shows chlorophyll levels  $>8 \mu\text{g/L}$  at 26°27'N 81°59'W, alongshore of Lee County between Sanibel and Fort Myers Beach. Recent sample data indicates that the bloom is weakening. Recent imagery shows decreasing chlorophyll levels as well. A wind transport model indicates about 30 km of southward alongshore transport since 11/20. Between now and Monday winds will favor upwelling, which may intensify the bloom. Weak southward transport is possible.

Bronder, Keller



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>. Cell concentration sampling data from November 14-21 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

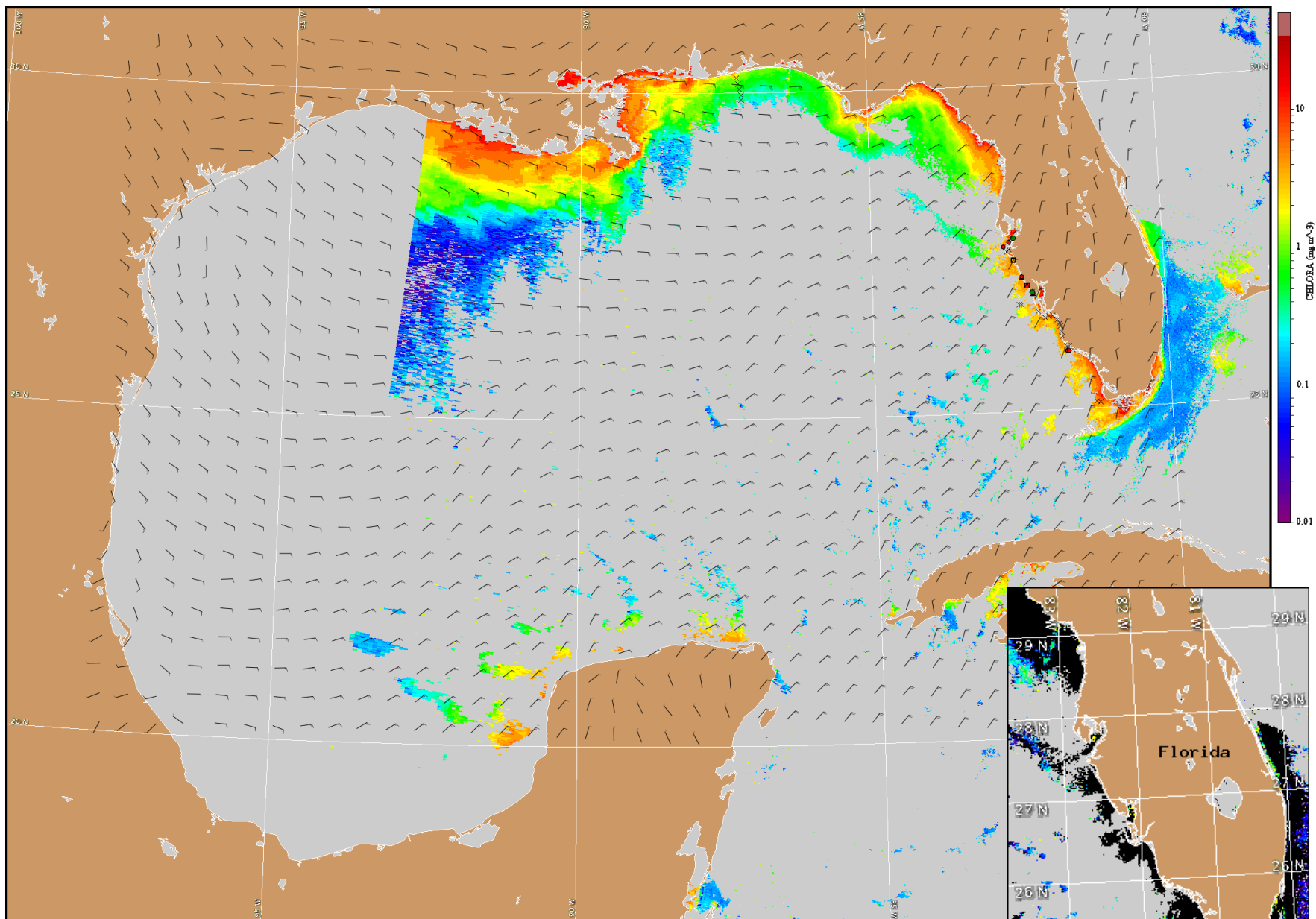


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

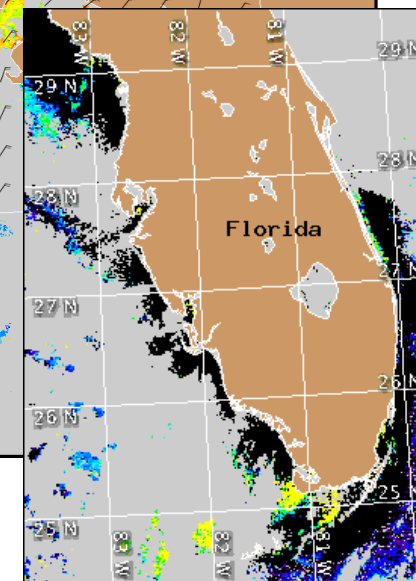
SW Florida: Winds will be from the northeast (15 kts, 8 m/s) today through Monday.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for November 25, 2006 12Z with cell concentration sampling data from November 14-21 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).